

CLAIMS

We claim:

1. A roll in a paper or board machine comprising:
a roll blank defining a rotational axis, the roll blank formed of a bent planar
5 sheet and having a longitudinal seam weld, the roll blank not having a
lathe turned cylindrical surface; and
a coating applied to the roll blank, the coating formed of a material that has a
modulus of elasticity and a density lower than those of steel, the roll
blank with applied coating having a lathe turned exterior coating
10 surface centered about said rotational axis, such that the exterior
coating surface is cylindrical with respect to the rotational axis, and
the thickness of the coating when measured from the exterior coating
surface of the roll blank is nonuniform.
2. The roll of claim 1 wherein the coating is selected from the group
15 consisting of polyurethane, ebonite or an epoxy composite.
3. The roll of claim 1 wherein the modulus of elasticity of the coating is
10–4000 MPa.
4. The roll of claim 1 wherein the density of the coating is 0.9–1.5
g/cm³.